

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"10579785"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 12:34
S2	217	464/102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:10
S3	67	464/103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:18
S4	28	S3 NOT S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:19
S5	102	464/104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:21
S6	32	S5 NOT (S2 S3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:21
S7	55	464/105	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:27
S8	15	S7 NOT (S2 S3 S5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:27
S9	24	464/110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:28

S10	18	S9 NOT (S2 S3 S5 S7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR		OFF	2009/02/06 13:28
S11	63	464/15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR		OFF	2009/02/06 13:29
S12	60	S11 NOT (S2 S3 S5 S7 S9)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR		OFF	2009/02/06 13:29
S13	74	464/902	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR		OFF	2009/02/06 13:34
S14	71	S13 NOT (S2 S3 S5 S7 S9 S11)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR		OFF	2009/02/06 13:35
S15	300	(US-20050086991-\$ or US-20060142694-\$). did. or (US-5339376-\$ or US-5524562-\$ or US- 4299534-\$ or US- 4345849-\$ or US- 4359234-\$ or US- 4456414-\$ or US- 4484899-\$ or US- 4489486-\$ or US- 4556922-\$ or US- 4630878-\$ or US- 4790441-\$ or US- 4811685-\$ or US- 4811965-\$ or US- 4869079-\$ or US- 4916458-\$ or US- 4929135-\$ or US- 4951450-\$ or US- 5024102-\$ or US- 5257150-\$ or US- 5335961-\$ or US- 5503494-\$ or US- 5695223-\$ or US- 5752887-\$ or US- 5836727-\$ or US- 5852693-\$ or US-	US-PGPUB; USPAT	OR	OFF	2009/02/06 13:42	

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S16	297	S15 NOT (S2 S3 S5 S7 S9 S11 S13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 13:44
S17	75	"464" AND ball AND gothic AND arch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 13:55
S18	6777	(nozaki-t\$6 hakamata-h \$6 sone-k\$6 hayama-\$8).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 14:12
S19	242	S18 AND ball	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 14:12
S20	1	(11/987963).APP.	USPAT; USOCR	OR	OFF	2009/02/06 14:31
S21	3	("4384859"   "5035677"   "5092826").PN. OR ("7458897").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:33
S22	14	"1352864"   "1514795"   "2343244"   "4252227"   "5941134"   "5976020"   "6067876"   "6109134"   "6128972").PN. OR ("6238293").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:34
S23	25	("1692978"   "2205401"   "2398261"   "2567125"   "2814187"   "4359985"   "4465172"   "4800996"   "5295411"   "5557984"   "5819598").PN. OR ("6109134").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:37
S24	5	("2343244").URPN.	USPAT	OR	OFF	2009/02/06 14:39

S25	7	"4955330"   "6502537"   "6510826"   "6561149"   "6672264").PN. OR ("6805082").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:42
S26	16	("0535738"   "4046239"   "4131188"   "4191279"   "4519373"   "4714803"   "4771864").PN. OR ("5052518").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 14:42
S27	23	(US-20070270229-\$ or US-20080096675-\$). did. or (US-5911566-\$ or US-6238293-\$ or US-6805082-\$ or US-5052518-\$ or US-7416199-\$ or US-7097567-\$ or US-7094155-\$ or US-6910970-\$ or US-6783278-\$ or US-6497622-\$ or US-5230659-\$ or US-4799803-\$ or US-7458897-\$ or US-6109134-\$ or US-2343244-\$).did. or (EP-1715205-\$ or WO-2005061256-\$ or WO-2005050042-\$).did. or (JP-2007162811-\$ or JP-2006083933-\$ or JP-2005207484-\$).did.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/02/06 14:52
S28	0	S27 AND rubber and teflon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 14:53
S29	1	S27 AND rubber	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 14:53
S30	2782	pin and sleeve and rubber and teflon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 14:57

S31	145	pin and sleeve and rubber and teflon and damper	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 14:58
S32	41425	rubber and fluorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:23
S33	10750	rubber same fluorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:23
S34	8093	rubber with fluorine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:23
S35	791	(rubber with fluorine) and sleeve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:24
S36	148	(rubber with fluorine) and sleeve and torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:25
S37	9	("5128196"   "5301073"   "5601176"   "5697261"   "6045448"   "6200221"   "6705181"   "6722993"   "6770592").PN. OR ("7048661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 15:27
S38	30	(rubber with fluorine) and sleeve and pin and torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 15:59
S39	504284	(rubber with fluorine) torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 16:06

S40	498916	(rubber adj fluorine) torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 16:06
S41	229	(rubber adj fluorine) and torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/06 16:06
S42	531	"464" AND ball AND flat AND arch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:26
S43	511	S42 NOT S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:26
S44	161	"464" AND ball AND flat AND arch AND torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:28
S45	148	S44 NOT S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:28
S46	133	"464" AND ball AND recess AND arch AND torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/06 16:31
S47	120	180/259	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 11:54
S48	67	464/103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 13:02
S49	102	464/104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 13:15

S50	67	464/103	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 13:32
S51	0	02-1131123	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 14:13
S52	0	"021131123"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 14:13
S53	0	"21131123"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 14:13
S54	5	"1131123"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 14:13
S55	31	(US-20070270229-\$ or US-20080096675-\$ or US-20020053836-\$). did. or (US-5911566-\$ or US-6238293-\$ or US- 6805082-\$ or US- 5052518-\$ or US- 7416199-\$ or US- 7097567-\$ or US- 7094155-\$ or US- 6910970-\$ or US- 6783278-\$ or US- 6497622-\$ or US- 5230659-\$ or US- 4799803-\$ or US- 7458897-\$ or US- 6109134-\$ or US- 2343244-\$ or US- 6945338-\$ or US- 6370772-\$ or US- 7048661-\$ or US- 5915147-\$ or US- 4611373-\$ or US- RE32830-\$ or US- 5509855-\$).did. or (EP- 1715205-\$ or WO- 2005061256-\$ or WO-	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/02/13 15:01

		2005050042-\$).did. or (JP-2007162811-\$ or JP-2006083933-\$ or JP- 2005207484-\$).did.				
S56	4	S55 AND (lube lubrication lubricant grease)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 15:02
S57	2	"20020077186"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 15:08
S58	8	"2114259"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 15:09
S59	31	(US-20070270229-\$ or US-20080096675-\$ or US-20020053836-\$). did. or (US-5911566-\$ or US-6238293-\$ or US- 6805082-\$ or US- 5052518-\$ or US- 7416199-\$ or US- 7097567-\$ or US- 7094155-\$ or US- 6910970-\$ or US- 6783278-\$ or US- 6497622-\$ or US- 5230659-\$ or US- 4799803-\$ or US- 7458897-\$ or US- 6109134-\$ or US- 2343244-\$ or US- 6945338-\$ or US- 6370772-\$ or US- 7048661-\$ or US- 5915147-\$ or US- 4611373-\$ or US- RE32830-\$ or US- 5509855-\$).did. or (EP- 1715205-\$ or WO- 2005061256-\$ or WO- 2005050042-\$).did. or (JP-2007162811-\$ or JP-2006083933-\$ or JP- 2005207484-\$).did.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/02/13 17:25

S60	3	S59 AND (hardening)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:25
S61	8558	"464" AND (surface same hard\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:27
S62	7	"464/103" AND (surface same hard\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:27
S63	1446	"464" AND (surface same hard\$5) AND torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:29
S64	803	"464" AND (surface same hard\$5) AND torque AND coupling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:29
S65	144	"464" AND (surface same hard\$5) AND torque AND coupling AND balls	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:30
S66	14	(464/102 464/103 464/104 464/105 464/15 464/902) AND (surface same hard\$5) AND torque AND coupling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:38
S67	3	(464/102 464/103 464/104 464/105 464/15 464/902) AND (hardening) AND torque AND coupling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:40
S68	101	"464" and (surface adj hardening)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:40

S69	1	"20020068639".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/13 17:43
S70	5	("2343244").URPN.	USPAT	OR	OFF	2009/02/14 10:01
S71	505	411/44	USPAT	OR	OFF	2009/02/14 10:04
S72	198	411/44 AND plate	USPAT	OR	ON	2009/02/14 10:07
S73	7384	(surface adj treatment) and friction	USPAT	OR	ON	2009/02/14 10:17
S74	2235	S73 and coupling	USPAT	OR	ON	2009/02/14 10:17
S75	1413	S74 and plate	USPAT	OR	ON	2009/02/14 10:18
S76	784	S75 and coefficient	USPAT	OR	ON	2009/02/14 10:18
S77	330	rubber and flourine	USPAT	OR	ON	2009/02/14 10:24
S78	23052	rubber and fluorine	USPAT	OR	ON	2009/02/14 10:25
S79	90	(rubber adj matrix) and fluorine	USPAT	OR	ON	2009/02/14 10:25
S80	953	"464"/\$3 and lubricant and groove	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 08:55
S81	5	"464"/103 and lubricant and groove	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 08:55
S82	481	"464"/\$3 and lubricant and groove and ball	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:09
S83	400	"464"/\$3 and lubricant and groove and ball and contact	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:11

S84	228	"464"/\$3 and lubricant and groove and ball and contact and friction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:16
S85	117	"464"/\$3 and (lubricant same friction) and groove and ball and contact	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:20
S86	132	"464"/\$3 and (lubricant same friction) and groove and ball	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:26
S87	15	S86 not S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:26
S88	82	"464"/\$3 and (lubricant same friction) and (groove same ball)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 09:37
S89	3045	(lubricant same friction) and (groove same ball)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 10:15
S90	832	(lubricant same friction) and (groove same ball) and coupling	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 10:15
S91	12299	lubricant and friction and (boot or seal) and groove	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 10:41
S92	867	lubricant and friction and (boot or seal) and groove and "464"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2009/02/17 10:42
S93	12	("4128279"   "4262974"   "4552416").PN. OR ("4648726").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 11:20

S94	1	"6755291".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 11:34
S95	53	(bolt connection) and (sleeve anchor) and flourine	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 11:53
S96	512	411/44	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 12:06
S97	1	"20030106758".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 12:08
S98	29	("0508254"   "1120367"   "1349437"   "1953636"   "1957533"   "2513193"   "2525198"   "2542967"   "2612376"   "3974734"   "4020735"   "4078471"   "4322194"   "4840522"   "4978264"   "5106225"   "5263802"   "5816759"   "6048149"   "6416267").PN. OR ("6629808").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 12:23
S99	199	411/44 and plate	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/17 12:26
S100	1	"20020068639".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/17 12:40
S101	12	(rubber adj fluorine) and bolt and sleeve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 12:58
S102	359	(rubber adj fluorine) and sleeve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 13:26
S103	917	(rubber adj fluoro)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:08

S104	2	(fluro adj rubber) and bolt	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:43
S105	7	(fluro adj rubber) and screw	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:44
S106	1	(fluro adj rubber) and fastener	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:45
S107	0	(fluro adj rubber) and anchor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:47
S108	0	(fluro adj rubber) and sleeve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/02/17 14:47
S109	13	("3388638"   "3703125"   "4214507"   "4727795"   "4790726"   "4821627"   "5070971"   "5249649"   "5484041"   "5992948"   "6085636").PN. OR ("6609454").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 15:18
S110	1429	viton and sleeve	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 15:18
S111	208	viton and sleeve and bolt	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/17 15:18

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